

Form PTO/SB/08A

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/051,853
Filing Date	January 17, 2002
First Named Inventor	Alan E. Kligerman et al.
Group Art Unit	1616
Examiner Name	Not Yet Assigned
Attorney Docket Number	7706-232U1

Sheet 1 of 6

U.S. PATENT DOCUMENTS

Exr Initials	U.S. Patent Document		Name of Inventor or Applicant of Cited Document	Date of Publication of Cited Document MM-YYYY
	Number	Kind Code (if known)		
SW	2,036,345		Merkel	04-1936
	3,061,442		Ward et al.	10-1962
	3,952,092		Bowen et al.	04-1976
	4,206,209		Kracauer et al.	06-1980
	4,689,218		Gazzaniga et al.	08-1987
	4,740,380		Melachouris et al.	04-1988
	4,826,675		Gaffar et al.	05-1989
	4,834,966		Gazzaniga et al.	05-1989
	4,935,227		Duckworth	06-1990
	4,980,153		Jackson et al.	12-1990
	5,015,465		Straw	05-1991
	5,026,539		Jackson et al.	06-1991
	5,087,444		Jackson et al.	02-1992
	5,112,600		Jackson et al.	05-1992
	5,202,145		Wisler et al.	04-1993
	5,227,154		Reynolds	07-1993
	5,310,542		Au et al.	05-1994
	5,362,480		Au et al.	11-1994
	5,378,131		Greenberg	01-1995
	5,389,371		Shiao	02-1995
	5,409,902		Carson et al.	04-1995
	5,416,075		Carson et al.	05-1995
	5,447,732		Tanimoto et al.	09-1995
	5,449,509		Jackson et al.	09-1995
	5,490,978		Spaltro et al.	02-1996
	5,571,502		Winston et al.	11-1996
	5,603,922		Winston et al.	02-1997
	5,605,675		Usen et al.	02-1997
	5,614,175		Winston et al.	03-1997
	5,665,415		Kligerman et al.	09-1997
	5,672,351		Chikindas et al.	09-1997
	5,747,004		Giani et al.	05-1998
	5,801,226		Cummins et al.	09-1998
	5,817,296		Winston et al.	10-1998
	5,827,505		Hughes et al.	10-1998
	5,833,954		Chow et al.	11-1998
	5,833,957		Winston et al.	11-1998
	5,840,322		Weiss et al.	11-1998
	5,866,102		Winston et al.	02-1999
	5,869,119		Kligerman et al.	02-1999
	5,972,321		Kligerman et al.	10-1999

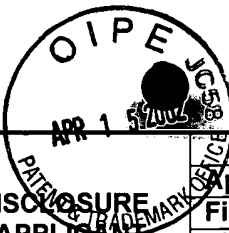
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FOREIGN PATENT DOCUMENTS

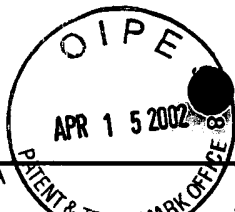
Exr Initials	Foreign Patent Document			Name of Inventor or Applicant of Cited Document	Date of Publication of Cited Document MM-YYYY	T ₁
	Country Code	Number	Kind Code (if known)			
GW	RU	523687		Viktorova et al.	05-1976	X
	FR	2 667 764	A1	Laboratories Miva	04-1992	
	EP	0 241 818	A2	Kao Corporation	10-1987	X
	EP	0 605 757	A1	Ajinomoto Co., Inc.	07-1994	
	EP	0 865 737	A2	Societe Des Produits Nestle S.A.	09-1998	
	EP	0 941 671	A2	International Flavors & Fragrances Inc.	09-1999	
	WO	97/04661	A1	AkPharma, Inc.	02-1997	X
	WO	97/30601	A1	SmithKline Beecham PLC	08-1997	X
	WO	99/08550	A1	SmithKline Beecham PLC	02-1999	X
	JP	10-16890	A	* Shiseido Co. Ltd.	01-1989	X
	JP	57-043660		* Yamada Shogo	03-1982	X
	JP	74-017587	B	* Calpis Food Industry Co.	05-1974	X
GW	JP	2000 270810	A	*Sunstar, Inc.	10-2000	X

* Abstract Only

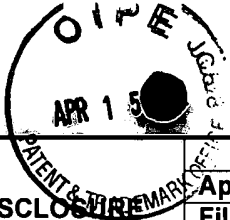
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exr Initials	Include Name of first Author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), volume-issue number(s), page(s), date (in parentheses). If a book, also include publisher and city and/or county where published.	T ₁
SWA-1	BROOK et al., "Calcium Glycerophosphate and Dental Plaque," <i>Caries Res.</i> , 9:156-162 (1975);	
SWA-2	BOWEN, "The Cariostatic Effect of Calcium Glycedrophosphate in Monkeys," <i>Caries Res.</i> , 6:43-51 (1972);	
SWA-3	WYCOFF et al., "The Effect of Mouthrinse Containing Calcium Glycerophosphate on the Chemical Composition and Development of Plaque in Humans," <i>J. Dent. Res.</i> , 59(1):23-28 (January 1980);	
SWA-4	BORN, "Super Solutions for Tooth Decay," <i>The Saturday Evening Post</i> , pp. 16, 17 (Jan./Feb. 1987);	
SWA-5	NORDBÖ et al., "Desorption of Salivary Proteins from Hydroxyapatite by Phytic Acid and Glycerophosphate and the Plaque-Inhibiting Effect of the Two Compounds in Vivo," <i>J. Dent. Res.</i> , 51(3):800, 802 (May - June 1972);	
SWA-6	O-T-Cs - Oral Care, "Mouthwash Arena In Need of a Boost," <i>Chain Drug Review</i> , p. 34 (January 4, 1999);	
SWA-7	DODDS et al., "The Relationship Between Plaque pH, Plaque Acid Anion Profiles, and Oral Carbohydrate Retention After Ingestion of Several Reference Foods By Human Subjects," <i>J. Dent Res.</i> , 67(5):861-5 (1988 May) - Abstract Only;	
SWA-8	KALFAS et al., Effect of pH On Acid Production From Sorbitol In Washed Cell Suspensions of Oral Bacteria," <i>Caries Res.</i> , 24(2):107-12 (1990) - Abstract Only;	
SWA-9	DODDS et al., "Effects of Dietary Sucrose Levels on pH Fall and Acid-Anion Profile in Human Dental Plaque After a Starch Mouth-Rinse," <i>Arch Oral Biol.</i> , 31(8):509-12 (1986) - Abstract Only;	

Examiner Signature	S. V. [Signature]	Date Considered	10/10/02
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Form PTO/SB/08A		Complete if Known	
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		Examiner Name	Not Yet Assigned
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Exr Initials	Include Name of first Author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), volume-issue number(s), page(s), date (in parentheses). If a book, also include publisher and city and/or county where published.		T₁
B1	SCHROEDER et al., "Dental Erosion and Acid Reflux Disease," <i>Ann Intern Med</i> , 122(11):809-15 (June 1, 1995) - Abstract Only;		
B2	LINGSTROM et al., "Effect of Frequent Consumption of Starchy Food Items on Enamel and Dentin Demineralization and on Plaque pH in Situ," <i>J Dent Res</i> , 73(3):652-60 (Mar. 1994) - Abstract Only;		
B3	MacPHERSON et al., "An in Vitro Stimulation of the Effects of Chewing Sugar-Free and Sugar-Containing Chewing Gums on pH Changes in Dental Plaque," <i>J Dent Res</i> , 72(10):1391-7 (Oct. 1993) - Abstract Only;		
B4	BIBBY et al., "Oral Food Clearance and the pH of Plaque and Saliva," <i>J Am Dent Assoc</i> , 112(3):333-7 (Mar. 1986) - Abstract Only;		
B5	ABELSON et al., "The Effect of Saliva on Plaque pH in Vivo," <i>J Dent Res</i> , 60(9):1634-8 (Sep. 1981) - Abstract Only;		
B6	MILLWARD et al., "Continuous Monitoring of Salivary Flow Rate and pH at The Surface of the Dentition Following Consumption of Acidic Beverages," <i>Caries Res</i> , 31(1):44-9 (1997) - Abstract Only;		
B7	HAYS et al., "Salivary pH While Dissolving Vitamin C-Containing Tablets," <i>Am J Dent</i> , 5(5):269-71 (Oct. 1992) - Abstract Only;		
B8	NILNER et al., "Effect of a Buffering Sugar-Free Lozenge on Intraoral pH and Electrochemical Action," <i>Acta Odontol Scand</i> , 49(5):267-72 (Oct. 1991) - Abstract Only;		
B9	EGGERT et al., "The pH of Gingival Crevices and Periodontal Pockets in Children, Teenagers and Adults," <i>Arch Oral Biol</i> , 36(3):233-8 (1991) - Abstract Only;		
B10	MAGLIS et al., "Determination of Saliva pH in Periodontal Disease Patients and a Control Group," <i>Rev Dent Chile</i> , 80(2):70-2 (Aug. 1989) - Abstract Only;		
B11	VAHL et al., "Examination of the pH of saliva in children and juveniles in relation to caries, gingivitis and oral hygiene," <i>Stomatol DDR</i> , 39(4):253-8 (Apr. 1989).		
B12	CHRISTENSEN et al., "Salivary Changes in Solution pH: A Source of Individual Differences in Sour Taste Perception," <i>Physiol Behav</i> , 40(2):221-7 (1987) - Abstract Only;		
B13	MANDEL, "The Role of Saliva in Maintaining Oral Homeostasis," <i>Journal of the American Dental Association</i> , 118(8):298 (7) (August 1989) - Abstract Only;		
B14	GROBLER et al., "Dental Erosion by Fruit," <i>Nutrition Research Newsletter</i> , 9(1):6(2) (Jan. 1990) - Abstract Only;		
B15	WALSH, "Do-it-yourself Dental Rinses. (Your Healthy Smile)," <i>Prevention</i> , 47(6):42(2) (June 1995) - Abstract Only;		
B16	NEWLAND, "Oral Ulcers: Keys to Differential and Definitive Diagnosis," <i>Consultant</i> , 29(5):157(11) (May 1989);		
B17	MOYNIHAN et al., "A Comparison of the Relative Acidogenic Potential of Infant Milk and Soya Infant Formula: A Plaque pH Study," <i>Int J Paediatr Dent</i> , 6(3):177-81 (Sep. 1996) - Abstract Only;		
B18	THOMSON et al., "In Vitro and Intra-Oral Investigations into the Cariogenic Potential of Human Milk," <i>Caries Res</i> , 30(6):434-8 (1996) - Abstract Only;		
B19	Nutrition Research Newsletter of John Wiley & Sons, Inc., "Breast Milk and Dental Caries," <i>Nutrition Research</i> , XVI(4):37, 48 (April 1997);		
B20	VON BURG et al., "Baby Bottle Tooth Decay: A Concern for all Mothers," <i>Pediatr Nurs</i> , 21(6):515-9, quiz 520-1 (Nov.-Dec. 1995) - Abstract Only;		
Examiner Signature	<i>S. W. D.</i>		Date Considered 10/10/03



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Sheet	4 of 6	Attorney Docket Number	7706-232U1

1	HOLT et al., "The Weaning Diet and Dental Health," <i>Br Dent J</i> , 181(7):254-9 (Oct. 5, 1996) - Abstract Only;	
C2	TALAN, Newsday Newspaper Article Entitled "Scientists Getting Nearer to Knocking Out Cavities Without Using Fluoride," p. D4 (Jan. 1997);	
C3	GRENBY, et al., "Dental Properties of Soft Drinks," <i>Nutrition Research Newsletter</i> , 9(1:7(1) (Jan. 1990);	
C4	SCHURER-MALY et al., "Smoking and pH Response to H2-Receptor Antagonists," <i>Scand J Gastroenterol</i> , 24(10):1172-8 (Dec. 1989) - Abstract Only;	
C5	ELSON et al., "The Sugar Content And The Ph Of The Smoke Of Cigarette, Cigar And Pipe Tobaccos In Relation To Lung Cancer," <i>Int J Cancer</i> , 9(3):666-675 (1972) - Abstract Only	
C6	Single Sheet from <i>Environmental Nutrition</i> , with the caption "Say Cheese," p. 21 (October 1996);	
C7	BIRKHED et al., "pH Changes in Human Dental Plaque from Lactose and Milk Before and After Adaptation," <i>Caries Res</i> 27:43-50 (1993) - Abstract Only;	
C8	THOMAS et al., "Astringent Subqualities in Acids," <i>Chem Senses</i> , 20(6):593-600 (December 1995) - Abstract Only;	
C9	BASHIR et al., Department of Cariology, School of Dentistry, Karolinska Institutet, Huddinge, Sweden, "Site specificity of citric acid retention after an oral rinse," <i>Caries Res</i> , 29(6):467-9 (1995) - Abstract Only;	
C10	The American Dietetic Association©, Single Information Sheet, "Fig. 1. Definitions of oral health terms," (3/19/97);	
C11	News Bites, Single Sheet, "Sports Drinks: Bad for Teeth?" <i>HealthNews</i> , p. 8 (April 15, 1997);	
C12	Single page, "Medical Update - Heartburn and Tooth Trouble," <i>Consumer Reports on Health</i> , p. 106 (September 1995);	
C13	GRENBY, "Comparison of the Cariostatic Effects of Calcium and Sodium Glycerophosphates in Rats," <i>Helv. Odont. Acta</i> , 17:54, 55 (October 1973);	
C14	BROOK et al., "A Clinical Pilot Study of the Effect of Calcium Glycerophosphate," <i>Helv. Odont. Acta</i> , 17:55 (October 1973);	
C15	Single Sheet, last paragraph, <i>Food Processing</i> , p. 659;	
C16	Akademiia Nauk SSSR, Dobladay, 161(1):244-247 (1965);	
C17	FURIA, ed., "Phosphate Applications in Dairy Products," <i>CRC Handbook of Food Additives</i> , 2 nd Ed., Vol. 1, pps. 660-662 & 666.	
C18	WEAST, ed., "Definition of 'Buffer'," <i>CRC Handbook of Chemistry and Physics</i> , 70 th edition, p. F-84 (1989-1990).	
C19	"Buffer Solutions," <i>The United States Pharmacopeial /The National Formulary</i> , p. 2049 (1995).	

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Form PTO/SB/08B		Compleat if Kn wn	
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1	KEENAN <i>et al.</i> , "Buffered Solutions" <i>General College Chemistry</i> , p. 353 (1976).
2	"Comparison Chart of Phosphates of Calcium Glycerophosphate," (one page, no date).
3	"Food Chemicals Codex", 3 rd edition, National Academy Press, p. 574 – 581 (1981).
4	BOLOGNA <i>et al.</i> , "The Efficacy of Calcium Glycerophosphate in the Prevention of Food-Related Flares in Interstitial Cystitis," <i>Urology</i> , 57:6A p.119-120, (2001).
5	BOWEN, "The Monitoring of Acid Production in Dental Plaque in Monkeys," <i>British Dental Journal</i> , p. 506-508.
6	PIANOTTI <i>et al.</i> , " Cariostatic Activity of Calcium Glycerophosphate in Hamsters:Topical vs Dietary Administration," <i>J. Dent Res.</i> , 55:6 p. 1092-1096 (1976).
7	TU <i>et al.</i> "A Retrospective Analysis of Calcium Glycerophosphate (Prelief) in the Treatment of Food-Sensitive Interstitial Cystitis Patients," <i>Association des Urologues du Quebec</i> (No Date One Sheet).
8	TOAL <i>et al.</i> "Sodium and Calcium Glycerophosphates," <i>British Pharmaceutical Conference</i> , p. 869-877, (1949).
9	"Calcium Glycerophosphate," <i>Food Chemicals Codex</i> , 4 th Edition, pp. 51-52 and 60-61 (1996)
10	"Measurement Procedures," <i>Food Chemicals Codex</i> , 4 th Edition (1996).
11	BUDAVARI, ed., "Calcium Glycerophosphate," <i>The Merck Index, An Encyclopedia of Chemicals, Drugs and Biologicals</i> , 11 th Edition, p. 1675, (1989).
12	CURTIS, <i>Biology</i> , 2 nd Ed.; Worth Publishers, Inc., p. 597, NY Sixth Printing, February 1978.
13	AARON <i>et al.</i> , "Overlapping Conditions Among Patients with Chronic Fatigue Syndrome, Fibromyalgia, and Temporomandibular Disorder," <i>Arch. Int. Med. – Online</i> , 2 pages, September 29, 2000.
14	PARKER, "If You Have Pelvic Pain," <i>A Gynecologist's Second Opinion – Online</i> , 6 pages, October 13, 2000.
15	BOLOGNA, <i>et al.</i> , "Survey of the Effect of PRELIEF on Food-Related Exacerbation" Analyzed and Compiled by Paul F. Visintainer, PhD, 20 pages, December 15, 1999.
16	JONES, "The Therapeutic Effect of Calcium Glycerophosphate (Prelief®) in Interstitial Cystitis," <i>A Survey of Intestinal Cystitis Support Group (UK) Members</i> , 12 pages, January 2000.
17	"Irritable Bowel Syndrome (Spastic Colon)," <i>The Merck Manual of Diagnosis and Therapy – Online</i> , Chapter 32, Functional Bowel Disorders, September 29, 2000.
18	BEST and TAYLOR's <i>Physiological Basis of Medical Practice</i> , 12 th Ed., J.B. West Ed., Williams and Wilkins, pp. 640-674, January 1991.
19	"Irritable Bowel Syndrome – What is Irritable Bowel Syndrome?" <i>NIDDK – National Digestive Diseases Information Clearinghouse (US Govt.) – Online</i> , 6 pages, September 29, 2000.
20	FEDOROV, "The Effect of Phosphorus-calcium and Fluorine Compounds on Experimental Dental Caries in White Rats," <i>Doklady Akademii Nauk SSSR</i> ; 137:6 pp. 1481-1484, (1961).
21	Givocal®: Nutritional Ingredient, Carrier of Highly Bioavailable Calcium and Phosphorus; Seppic Inc., 19 pages, September 1997.
22	ANTANITUS, "A Theory of Cortical Neuron-Astrocyte Interatction," <i>Dept. Pediatrics, Harvard Med. Sch. – Online</i> , pp. 1-11, August 3, 2000.
23	ADAMS, "Glaxo Irritable-Bowel Treatment Faces FDA Review After Deaths," <i>Wall Street Journal</i> , October 31, 2000.

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Sub E.	"Potassium Glycerophosphate – Looking for a Superb Energy Enhancer?" <i>Nutrinews – GCI Nutrients – on line</i> , p. 4, October 27, 2000.	
E2	NORDSTROM, <i>et al.</i> , "Implementation of Intracerebral Microdialysis in Neuro Intensive Care," <i>Microdialysis in Intensive Care –online</i> , University of Lund; Karolinska Institute, Sweden, 4 pages, October 27, 2000.	
E3	ARAGON, "Experimental Pharmacological Study of the Anti-Spasmodic Action of Sodium-Beta-Glycerophosphate on the Uterus," <i>Anales fac. farm y bioquim</i> , Univ. nacl. Mayor San Marcos 2: 417-429 (1951).	
E4	"Irritable Bowel Syndrome" and "Alpha Nutrition Elemental Nutrients Formulas," from website http://www.nutramed.com 5 pages, January 12, 2001.	
E5	MAYER, "IC and GI Disturbances: What's Your Gut Feeling," <i>The Intestinal Cystitis Association</i> , Rockville, MD. pp. 5-6, December 2000.	
E6	MYERS, "Diagnosing Interstitial Cystitis in Women," <i>Women's Health in Primary Care</i> , 1:2, pp. 133-136, April 2001.	
E7	WHITMORE, <i>et al.</i> , "Survey of the Effect of PRELIEF on Food-Related Exacerbation of Interstitial Cystitis Symptoms," 1 page Summary online, February 16, 2001, Philadelphia 1998-99.	
E8	BOUCRAUT <i>et al.</i> , "Evaluation de l'influence du glycerophosphate de calcium sure les cellules corticales (astrocytes et neurones) en culture," Laboratoire d'immunopathologie-Universite d'Aix-Marseilles, 1995.	
E9	BOUCRAUT <i>et al.</i> , "Effect du glycerophosphate de calcium du glycerophosphate de magnesium, de l'acide glycerophosphorique et due calcium sur la survie et la differenciation des neurones de rat en culture," Laboratoire d'immunopathologie-Universite d'Aix-Marseilles.	
E10	"Important Drug Information Product With Drawal-Lotronex® Tablets," 4 pages, November, 2000.	
Sub E11	"Popular Bowel Drug Banned After Links to Women's Deaths," Atlantic City Press, November 29, 2000.	

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